

ABSTRACT OF THE DISCLOSURE

An optical semiconductor relay comprises a light emitting element converting an electrical signal into an optical signal, a first photodiode array receiving the optical signal from the light emitting element. The first photodiode array converts the optical signal into an electrical signal. The relay is further provided with a first diode having one electrode connected to one end of the first photodiode array and a MOSFET. The MOSFET has a gate terminal connected to other electrode of the first diode, and a source terminal connected to other end of the first photodiode array. A second photodiode array is arranged to receive the optical signal from the light emitting element. The second photodiode array converts the optical signal into an electrical signal and has both ends connected to the respective electrodes of the first diode. A control circuit connected between the gate and source terminals of the MOSFET.